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MAY, 1889.



# Farmer

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The farmer wants a machine which does not keep him constantly stopping to regulate or repair it. One that will wear well; will stand the racket and come out all right.

He wants one that will not yield to every slight impediment, such as a bush, a twig, or even of a sprout as large as your thumb which often developes in a single season, and which we have known to cause confusion by the destruction of a guard or a knife, requiring the loss of much time and creating considerable discomfort.

He wants, in the case of a Binder, one which is solid in make, simple and at the same time effective.

He wants it so formed that the grain will not be wasted during its operation. We have known binders in years gone by, which might have a slight claim to being threshers, only the grain threshed was left in the field for the bird and beast gleaners, which grew fat on it, while the farmer's purse grew lean.

These remarks have grown out of a visit we recently made to the old Friend's Meeting House on Lombard, near Eutaw St., which is now the warehouse of the Whitely Mowers and Binders. We are greatly pleased with a critical examination of their machines.

The Mowers are made of solid steel, with such simple gearing, that they meet the great want of the least possible stoppage for repairs. The master wheels, which in other machines are generally cast iron and often meet with accidents, in these are solid steel, while the cold rolled steel

shaftings and axles leave nothing to be desired.

We stood beside one of these mowers while it cut off with apparent ease a half seasoned oak pole at least two inches in diameter, and then passed through a hickory hoop pole of nearly equal size. The guards were steel, and neither guards nor sections were disturbed in the least by this work.

The farmer, however, should be fully posted in one particular, viz: the shelling of the grain of which we spoke. common binders have a closed box passage through which the grain is pressed before The consequence is that some of tying. it invariably is rattled off and falls into This is a waste; and it rethe stubble. quires but a small waste constantly going on to amount to a large sum. In the Whitely Solid Steel Binder this waste is saved. How is it saved? By the use of their "Open End Elevator" which no other manufacturer has the right to use. The heads of the grain are not in the least disturbed and no friction causes them to shed their grain.

Did you ever consider how much depends upon this? Suppose only between 3 and 4 per cent is wasted, which could be scarcely discovered in the stubble, it would amount to a great deal where acres are reckoned. Counting 20 bushels to the acre it would be, in a field of 20 acres, \$15. In a 200 acre field it would be \$150—the full price of one of those Whitely Binders which saves all this.

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## M REW FARM,

Vol. XXVI.

BALTIMORE, May 1889.

No. 5.

### A PLEA FOR THE FOREST.

BY WILLIAM W. STOCKWELL.

Woodman, spare the forests now! Spare them on the mountain's brow! Spare them on the hills and plains! Let them crown earth's rude domains! Let the Future's children see Many a stately forest tree!

Should ye cut and clear as fast In the future as the past, 'Till a hundred years have flown, Though vast forests now have grown, Those who live will surely see Earth without a forest tree!

Lo! how fast the forests fall! Lofty pines and hemlocks tall, Beeches, maples—countless scores— Walnuts, elms, and sycamores: Stately poplars, giant oaks, All have felt your fatal strokes.

Woodman, in thy strength and pride, Lay the keen-edged ax aside; Let the forests that remain Long adorn both hill and plain; Let them in their grandeur stand Beautifying all the land; If thy hands must labor still, Train them well the soil to till; Plow and sow the fertile plain, Reap and bind the golden grain; And if so your heart incline, Plant and tend the fruitful vine.

Wouldst thou still a woodman be, Plant and tend the orchard tree, This will lead thee to forget Harder toil without regret; Surely care like this will suit Hands that like to gather fruit.

Hast thou been so long a child Of the forest dense and wild That the clear and open sky Brings no pleasure to thine eye, Plant a grove of forest trees 'Round thy home thyself to please.

Yes, environ home with flowers Fair as those in wildwood bowers; These will call the birds and bees To make music 'midst the trees, Which will charm thy listening ear And thy restless spirit cheer.



That thou may'st not long to roam From that sacred spot called home, With thy hands to labor born Thus thy homestead well adorn, And it will thy heart incline To enjoy that home of thine.

Woodman, spare the forests now! Spare them on the mountain's brow! Spare them on fair hills and plains! Spare them on earth's rude domains! Kindly our petition heed, Leave them for the future's need.

- Home and Farm.

### OUR NEW DEPARTURE.

We have determined to discuss in our columns the serious circumstances which surround farming in this portion of our country, rendering the income inadequate in most cases to a generous support, or dependent upon other things than the principal crops harvested.

Satisfied that this result comes from serious mismanagement in the cultivation of farm crops—a disregard of what are actually the best crops all things considered-we hope by our discussion to enforce upon the minds of our readers the conviction that change is a necessity, and that the sooner it can be brought about the better it will be for all.

We do not, however, expect that this change, whatever it may be, can be brought about at once and suddenly. Nature's work is slow work. The change may be spread over ten years, or even more, on any given farm, although it might be commenced this Spring.

It would be rash to abandon at once, wholly and unreservedly, the present system of farm crops. But it would not be rash to set apart certain fields for the inauguration of the change, and to give to those fields the best attention possible and test the results.

carried out on every farm and in every locality; but still the general principle is the same for all. The change must be adapted to the nature of the soil, the distance from market, the supply of labor, and many small considerations which each farmer can best determine from his own experience and experiments.

Potatoes may be adapted to one farm, while in no way adapted to some other different quality of soil. The sweet potato will flourish in sandy loam, but loses its sweetness and attraction if grown in

One locality may make cabbages, or celery, or asparagus, wonderfully profitable; and another may make strawberries and blackberries give a princely income.

One locality may be in soil, in situation and in the demand, just the place for the best grade of horses for draught, or for coach, or for city cars. Another may centre in milk or butter and have every thing to indicate perfect pasturage and large returns.

The growing of standard orchards requires many years of patience and can only become a source of income after patient labor and waiting. Dwarf pears however may be mingled with the orchard and begin their fruitage three years from the planting. The peach, also, is an early bearer, but this is getting to be a very uncertain fruit throughout this region. Nevertheless Apples, Pears, Peaches and Quinces are to become the best orchard fruits for this entire region of country and they must enter into the discussion of this subject of change of crops.

We must have less heavy expenditure of money in the future and less hard labor if possible, with less dependence upon hired help—at the same time getting crops which will turn readily into money.

In any event, however, the change must The same changes cannot of course be come in some form. It is a fact which we can no longer conceal from ourselves that wheat and corn and tobacco are no longer remunerative to the extent required to meet the necessary expenditures of even close economy, much less to enable the farmer to lay up anything for future possible or probable needs.

For the Maryland Farmer.

### DON'T GRUMBLE.

Mr. Editor:—I used to go around every winter grumbling all the while about hard times. Well, it was a little hard with me then, and I can see the reason very plainly now.

I had a lot of old second rate—no, fifth rate—cattle about me, which were neither fish nor flesh, and ate their heads off three or four times every year. I don't have that to grumble about now—my cattle are sleek Jerseys and generous Holsteins.

I had five or six hands to whom I paid short wages and who gave me abominably short work in return. I don't have that to grumble about now—my hands are tip-top, secured early in the season, and I pay them a price that makes them smile, while they do work for me which makes me smile.

I placed all my eggs in one basket, had a special hobby crop, raised one thing only as a bringer in of money. I don't do that now—I have all the variety on my farm that anyone could desire, and when one is good for nothing, five or six others are bringing money to me, so that I don't care to grumble.

When evening came I had no paper to read and so had nothing to think about except hard work to grumble over. I ain't troubled that way now—I take my county paper and the MARYLAND FARMER and so am always studying out something useful when the lamps are lighted.

I used to think I knew everything worth

knowing. But I don't think so now—the way my eyes have been opened during the past two or three years by reading what others were doing is a caution to all grumblers. I just begin to think I don't know anything to brag about, and when I hear a neighbor groaning and grumbling around, I just tell him to hush up and go home and read.

That old swamp I used to tell you about was a source of a vast amount of grumbling. I don't grumble over that now—it has been all drained, thanks to a good word from you, and it is now the best part of my farm. Why, last year I raised 280 bushels of the loveliest potatoes on an acre of that old swamp.

I remember well how I kept trying to make my farm grow crop after crop by cultivating one field and then letting it lie idle for two years to grow rich enough to plow again—I don't wonder now that I grumbled over it. But I don't grumble now—I put some manure on the land, rotate crops a little, turn under clover, and go ahead.

My friends who used to hear me talk a few years ago, used to put on long faces and look anxious at me. They don't do so now—they meet me with a beaming smile, and hit me on the back and with a jump cry "How are you, old fellow!" and I give them as good as they send.

I say what is the use of grumbling.

JOSEPH.

### OF NITROGEN.

There is a scientific reason why a green crop of any sort, even weeds, is more profitable for land than blank fallow. Without it, nitrogen, the most valuable constituent of plants, and especially of wheat, can neither be developed nor retained in the soil.

Naked fallows are more exhausting on

the nitrogen of the soil than a summer crop. A crop of ragweed on a stubble field is a real blessing in protecting the soil from the scorching sunshine of August, which is the season that the process of nitrification shows the greatest activity. But plow in the weed crop.

### SOOT-WATER.

The following remarks about making and using soot-water are made by "Old Delver," in *Gardening Illustrated*.

When made sufficiently strong and used in a clear state there is no other fertilizer, either solid or liquid, that is so well suited for amateurs' use as soot-water, as it is gentle in its action and sustaining in its nature.

This is not the case with the majority of concentrated manures, for if they are used slightly in excess, serious consequences are often the result.

When a regular supply of soot-water is required there should be two barrels, or other receptacles, in which to make it. A cask holding about thirty gallons is very suitable. In one of these place one peck of soot, and then fill up with water, and keep it stirred twice a day for a week.

In ten days it should be ready for use, but it is necessary that it should be quite clear before using it, or there will be a settlement of the solid matter on the soil.

A better plan is to put the soot into a coarse hessian bag and place it in the water. The a strong piece of string to the mouth of the bag, and have one end of it fixed on to the edge of the barrel; the bag can then be moved about in the water, for the purpose of mixing it with the greatest ease.

As soon as one lot is ready, another should be in course of preparation, so that with a little forethought a regular supply may be obtained.

As regards how and when to use it—as an old practitioner, I can only say that when given regularly when the plant is in active growth I don't know the plant that it would harm, but I have known it benefit a vast number.

Even such delicate-rooted plants as Erica and Epacris I have kept in splendid health in the same pots for seven or eight years by the aid of soot-water, and such plants as Callas, Camellias, Azaleas and Roses, may have regular supplies the whole year round. Such subjects as Fuchsias Pelargoniums, Cyclamens, Primulas and Ferns are greatly benefitted by it while they are in active growth.

Plenty of soot-water, whenever the soil about the roots is dry, will send green fly and other enemies to the roundabout; therefore I say, use it, and keep your plants healthy and your mind at rest.

### MODESTY RECEIVES ITS REWARD.

The modest violet is occupying an exalted position just at present. Florists say that it is by far the most popular of all the blossoms, and it is in favor equally with both sexes, while the subtle perfume is used generally, and in divers ways. The various perfume-pouches, pillows and sachets of all kinds that are used so lavishly in every fashionable drawing-room, are for the most part violet scented; the belle's dainty silver "bonbonniere" is filled with glace violets, she relieves her occasional hoarseness with violet lozenges, and bathes in violet-perfumed water, with violetscented soap. It is a matter of congratulation that the odor is pleasingly delicate or we should soon beg for respite.

-Table Talk.

A few hours work grafting in a small orchard will yield much pleasure and profit in a few years.

### A BOOM IN PEANUTS.

The outlook of the peanut crop of 1889 is decidedly good.

The Virginia crop of 1888 was very short, the smallest that has been grown since 1867, and it is certain that the peanut market will be bare of stock long before the crop of 1889 can be made and harvested.

So decided is the shortage in yield, and so well is it known among peanut buyers and venders that prices have already gone up from about three cents in October last, till at this time they are five cents a pound And they are expected to go considerably higher than that.

But even should the market reach no higher figure than at present—five cents per pound—the peanut is a very profitable crop to grow. It pays at anything near a dollar a bushel—pays as a market crop alone, to say nothing of the great value of the vines when nicely cured, for forage, and of the waste pease left in the ground at digging for giving the pigs a fine start for the pig pen.

When the last two items are considered, this crop has always been a profitable one to our growers.

But when the planter can get five cents per pound for all the good solid nuts he can grow for market, and have nice peanut forage enough to feed his cattle all winter, besides fattening his home supply of pork on the waste ruts of the field, there is no crop that the Virginia farmer has been growing which yields so much per acre as peanuts.

The grower of a crop this year will strike a bare market and rising prices.

Any one who has good corn land of a sandy character has land that, with lime, will produce a paying product.

The cultivation has been so much simplified since 1867 that it is now but very little more trouble to grow a crop of pea-

nuts than a crop of corn. The important item is good seed and a good stand of plants to start with.

For the Maryland Farmer.

### EATING ONIONS.

To conduce, or to contribute to health Americans should eat more Onions.

I think it was in the Herald that I was reading advice to first partially boil and cast away the two first waters in cooking onions. Seeing this idea set forth in such a journal induces me to give the following reasons for continuing the common method of cooking onions.

The mode of preparing one of the best esculents that grows for the use of man—the onion—is a very simple process, if you will take health and happiness into consideration. Boil them until thoroughly done in water and then add a little good butter to suit the taste, using cream and seasonings as is commonly done to prepare them for the table.

But I have more to say about this in a literary, scientific, or medical way of cooking. Any herbs that are boiled with meat in an iron vessel should be covered continually while cooking, to preserve all the best nutritive qualities. That which boils over and out, passing off in the atmosphere, is the very life essence of the plants and meats. If it be onions, beets, carrots, or other roots or herbs, and meats of any kind, this life-essence, passing away from uncovered boiling vessels, is what is most required to sustain the bodily system and the health of man. It is a great waste in cooking.

There is a spirit—a life force—in all things that grow, as well as in everything that moves about on this earth, and this is necessary as a factor to impart to man and child the vital energies which are most needed. This subtle essence should

not be allowed to escape even in cooking but should be retained to add its support to our nature.

I would like as a physician to add some other items to the credit of onions. One is that onions well directed and applied will break up varioloid or small pox in their earliest stages, and are a specific to ward off danger from exposure to their contagion. Onions also act as an antidote to prevent the settlement of worms in old or young, and on this account are an excellent food for children, who are most subject to this malady.

Many nations use onions as a common diet and they are notably the most healthy, vivacious people on this earth.

I would urge then the greater use of this excellent vegetable on our tables, and, when used, disregard the frivolous ideas which are popular in so many places and save their whole strength and virtue in their preparation.

Weeny young men and women are the result of these whimsical methods of taking the life-essence out of vegetables and meats cooked for our food.

Solomon. W. Jewett. Shepherd Home, Vt.

### ABOUT COUNTY FAIRS.

Our esteemed contemporary, the New England Farmer publishes concensus of opinion from a number of distinguished agriculturists on the question of what, in the nature of side shows etc., should be admitted to county fairs.

A large proportion of the replies vote in favor of excluding everything of the sort. All of them would vigorously exclude the sale of anything of an intoxicating character and all forms of pool selling and gambling.

On the latter, there is no diversity of opinion. Practically we agree with the

gentlemen, and particularly so, if they will consider horse racing a side show and exclude it with the rest. It is absolutely impossible to permit racing and prevent gambling, no amount of police supervision or legal restraint will do this. They are absolutely inseparable.

We are glad to note the increased attention this subject is receiving at the hands of the press. There is great need of reform. We attended a fair two years ago where a most indecent exhibit was allowed and another last season where skin-gamblers were as thick as "leaves in Vallombrosa." It is some satisfaction to note that neither of the fairs alluded to were pecuniary successes.

There is but one right way. Make the fairs clean and pure. Exclude all fakirs, gamblers, racing, etc., and confine them to agricultural and home interests only.

They will then be of real service and not contaminate the masses.—Orange County Farmer.

### HINTS ON CORN CULTURE.

The Minnesota Experiment Station sends out the following suggestions which it believes farmers must heed if they reapfull reward for their labor, time and expense in growing corn:

Use proper rotations, where possible, including clover; economy of manures, good tillage, and drain tiles where needed, thus to furnish the plant with an abundance of plant food and moisture, so as to push it rapidly to an early and well developed maturity.

Plow in fall to furnish more of available plant food; to secure an earlier and better seed bed and to relieve spring work.

Plow stubble in fall five to seven inches deep, if the seed germinates it will grow with vigor.

Plant in hills or "checkrows," unless

of drilled corn can be secured very cheap- early frosts.

Plant at a depth of two to four and one-half inches, approaching the latter depth when late, or in case of very dry mellow soil, as in some spring plowing, and plant shallow when early, or in case of wet or compact soils, as is the case with some fall plowing.

Harrow the corn twice or more, as one good harrowing is worth more than a fifth plowing. Give the last one when the corn is four inches high.

The best cultivator is the one that will do thorough work without breaking many roots, is easily handled, and has the numerous other desirable qualities.

If a deep going shovel is used, do not go unnecessarily close or deep. Make the "hill" or ridges about four inches higher than the furrows by hilling a little during each cultivation. Do not, under any circumstances, run deeply close to the corn the last time through.

If a shallow cultivator is in use, set it, if possible, so as to hill the corn properly and to cover the weeds in the rows; also that after the last plowing it will leave a "dust blanket" two or more inches deep in the middle between the rows.

Procure a cultivator that will thorough work, and, if you can do so, one that does not prine the roots badly. cultivator which leaves weeds in the rows, to consume food and "snck up" and evaporate moisture needed by the corn, and which also leaves a very thin "dust blanket" in the middle between the rows. also allowing great loss of moisture by evaporation, may not be so good as one that has only the fault of going too deep. Some so-called shallow cultivators may merit only fence corner room.

Produce, if possible, by means of cross fertilization, good dent and flint varieties

labor for the one or two necessary hoeings that will ripen early and will withstand

### TRUSTS.

The Indiana law has made thorough work of trusts. Members of trusts are subject to a penalty of not less than \$1000 or over \$10,000 and imprisonment for not less than two years nor over five. Beyond this every member of a pool or trust is made liable for the debts of every other member.

### WHAT A WOMAN CAN DO.

"True, she cannot sharpen a pencil, and ontside of commercial circles, she can't tie a package to make it look like anything save a crooked cross-section of chaos; but land of miracle see what she can do with a pin! I believe there are some women who could pin a glass knob to a door.

She cannot walk so many miles around a billiard table with nothing to eat, and nothing (to speak of) to drink, but she walks the floor all night with a fretful baby, without going sound asleep the first half hour.

She can ride five hundred miles without going into the smoking car to rest (and get away from the children).

She can go to town and do a wearisome day's shopping, and have a good time with three or four friends, without drinking a keg of beer.

She can enjoy an evening visit without smoking half a dozen cigars.

She can endure the torturing distraction of a house full of children all day, while her husband cuffs them all howling to bed before he has been home an hour.

Every day she endures the torture of a dress that would make an athlete swoon.

She will not and, possibly, cannot walk five hundred miles around a tanbark track in six days for \$5,000, but she can walk two hundred miles in ten hours, up and down the crowded aisles of a dry goods store, when there is a reduction sale on.

She has no skill at fence and knoweth not how to spar; but when she javelins a man in the ribs, in a Christmas crowd, with her elbow—that man's whole family howls.

She is afraid of a monse, and runs from

a cow, but a book agent can't scare her.

She is the salt of the church, the pepper of the choir, the life of the sewing society, and about all there is of a young ladies' school or a numery.

A boy with a sister is fortunate, a fellow with a cousin is to be envied, a young man with a sweetheart is happy, and a man with a wife is thrice blessed more than they all."—Burdette.

### POBLIER.

### FACTS ABOUT EGGS.

A small hen will lay as large eggs as will a heavy hen, and requires less room.

Fresh eggs are always in demand, and at good prices, no matter what the market quotations may be. Assure your customers that your eggs are collected daily, and only from your own yards, and you can dictate the price. To test this go into the market and try to procure eggs known to be strictly fresh—not over 24 hours old.

Always assort your eggs. Do not have several colors and sizes together. Put the dark eggs in one basket and the light ones in another, and pick out the small ones to be sold separately. It will pay, and assist in securing you a reputation. The New York markets prefer light eggs and the Boston markets dark ones.

Endeavor to keep hens instead of pullets, as the egg will then be more uniform. A hen will lay well until she is six or seven years old. It is time to replace them only when they begin to fail. As long as they lay well keep them.

Never use stale eggs for nest eggs. Nest egg gourds are the best. A single stale egg mav ruin vour reputation.

The non-sitting breeds will lav as well

in winter as the sitters if they are kept warm and comfortable. The first desideratum in winter is warmth.

Better prices are obtained in winter, but the cost of production in summer is less.

If a hen lays one egg a week she will pay all expenses of keep. Every egg over is profit. The greater the number of eggs secured, the lower the cost of each egg proportionally.

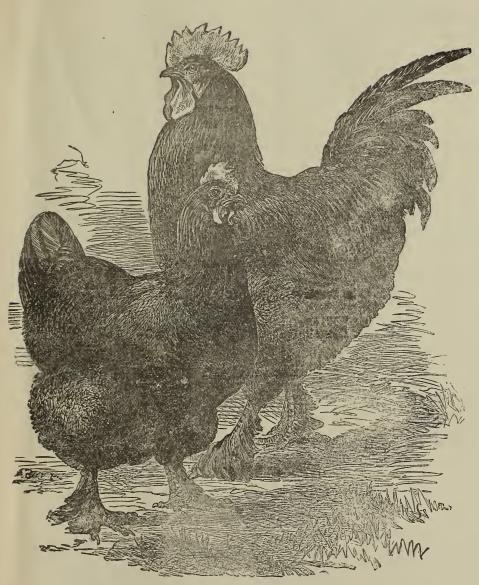
Always ship eggs the day they are haid, if possible. The frequency of arrival of the eggs assures customers that an egg does not remain sufficiently long with you to become stale.

When egg production alone is your object you need no males. The hens will lay as well without them (sometimes better), and the eggs will keep three times as long.

Never ship an egg that is dirty, or in any manner soiled. The appearance is a prime factor in the sale of an article.

The non-sitting breeds are Leghorns, Hamburgs, Red Caps, Minorcas, Black Spanish, Polish, Houdans, Crevecœurs. and La Fleches.—P. H. Jacobs.

So many tell us that sandy, gravelly land is the best for poultry; and yet some



LANGSHANS,

to us from clay farms. Success should be om teacher.

Pure Breeds of all kind of stock are at a premium. This is all right; else why should any one make it his especial business to keep them pure? and what would become of progress and improvement?

### DRIVING HENS.

When a woman has a hen to drive into the coop she takes hold of her skirts with both hands shakes them quietly at the delinquent and says: "Shoo there!" The hen takes one look at the object to assure herself that it is a woman, and then stalks majestically into the coop. A man doesn't do it that way. He goes out of doors saying: "It's singular nobody can drive a hen but me!" and picking up a stick of wood, hurls it at the offending biped, and yells: "Get in there, you thief!" The hen immediately loses its reason and dashes to the other end of the yard. The man plunges after her. She comes back with her head down, her wings out, and followed by a miscellaneous assortment of stove wood, fruit cans, clinkers, and a very mad man in the rear.

Then she skims under the barn, and over a fence or two, and around the house back to the coop again; all the while talking as only an excited hen can talk, and all the while followed by things convenient for throwing, and by a man whose coat is on the saw buck, whose hat is on the ground, and whose perspiration is limitless. By this time the other hens have come out to take a hand in the debate, and help dodge the missiles; the man vows that every hen on the place shall be sold at once, puts on his hat and coat and goes down town. The woman

of the best results as to healthy stock come comes out, goes right to work and has every one of those hens housed and counted in two minutes.

### KEEPING EGGS.

I saw in your paper an article on the value of eggs through the summer months, saving they ought to be consumed at home as much as possible. I think, as far as the profit is concerned, they ought to be used as economically as when they are worth from twenty-five to forty cents per dozen.

I put down 100 dozen fresh eggs, picked up every day, two years ago, packing them in coarse barrel salt, beginning the first of August. I wrapped each egg with paper, twisting the ends, and packed the eggs with the little end down. them the last of December for thirty cents per dozen.

I left three eggs in the salt, as an experiment, and forgot all about them until the next September, one year and one month, when I took them out. They were as clear to look at as they were the day they were put down, and when they were broken they were as fresh, except having dried down a little.

The paper keeps the salt from the eggs, and when taken out carefully they cannot be told from fresh eggs if they have not been packed more than eight months.

I shall begin packing this year as soon as the first of May, and am sure of having my eggs fresh and all right next December.

I am keeping about fifty hens; have had poor success the past winter in getting eggs, but am convinced that the fault was in my not giving them proper care.

I have kept an exact account for two years past, and until this winter I have cleared a net profit of \$1.50 per hen each vear .- Mirror.

### THE FEATHER INDUSTRY.

The annual consumption of feathers, to supply "downy pillows and beds of ease," is said to amount to 3,000,000 pounds, or 375 car loads. These feathers are obtained from geese kept mainly in Southern Illinois, MIssonri, Aakansas, Tennesee and Kentucky. The feathers grown in this region are fine and soft; those obtained from geese kept farther south are less downy and have more quick, while those kept farther north, while yielding just as good feathers, cannot be made so profitable, as they require more feeding.

Turkey feathers are graded before selling. The "prime tail" feathers bring the highest price—sometimes 20 cents per pound. The next grade are those from the wing, graded as "wing first and second joint," and then comes the grade "mixed tail and wing." These feathers should be clean and dry, such as can be used for the manufacture of dusters or for ornamental purposes. They are readily salable, and can be consigned to any reliable commission merchant.

Hen's feathers are less valuable, but where many are killed are worth preserving. They should be cleaned and thoroughly dried, and the quills kept free from the soft feathers, the latter being the marketable ones.

### HENS THAT LAY.

Leghorns lay more eggs than any other variety of fowls; so says Felch, the patriarch of poultry in America. He also claims that the white Leghorn will lay larger eggs than any other varieties of Leghorns. He commends as an excellent cross for practical purposes—meat and eggs—a white Leghorn cockerel on light Brahma hens. A correspondent in Southern Fancier says:

The best ben egg I have ever seen or

tasted is that of the light Brahma hen, haid in her second year. This egg is dark colored, rich flavored, large sized, thick shelled, ropy white, and heavy, rich yolk. In size, weight and quality, the Brahma egg more than makes up for loss of number as compared with the Leghorn. Mr. Felch says the egg of this cross—white Leghorn and light Brahma—is large, rich and dark colored, and strong shell. For all practical purposes—eggs for eating or shipping, or meat for eating—I can commend this cross to farmers who wish to cross with two varieties of pure bred fowls.

**Experience** is an excellent teacher, and we must therefore believe that those who have had great success with poultry tell us truly the best methods of feeding and treatment when they tell us their own.

A flock of poultry on a farm is indispensable to the setting of a good table.

Nearly all poultry diseases are caused by cold, wet, want of cleanliness or bad feeding; or in other words, by neglect somewhere.

It is said that a large proportion of poultry ailments are due to lack of grinding material in the crop. If this be so why do not poultry men get fresh gravel and shells in greater abundance to give their birds winter and summer?

The use of beans for fowls is good practice. There is little food of a more nutritious character. Let them be boiled soft and mashed with potatoes and a little meal. Many farmers have a quantity of old beans unfit for the table that should be thus utilized.

Don't allow water to stand in the fountains over night, it quickly gets impregnated with poison from the confined atmosphere.

## GARDEN NO ORCHARD.

We call especial attention to this list of Nurserymen, Seedsmen, Florists, etc. They all issue good Catalogues and will cheerfuly send you one free, if you write referring to the Maryland Farmer. We believe every one of them to be reliable.—Editor Md. Farmer.

Ellwanger & Barry, Mount Hope Nurseries, Rochester, N. Y.

Lewis Roesch, Grape Vines and Small Fruits. Fredonia, N. Y.

C. E. Allen, Seeds, Plants, Fruits, Roses, Bulbs. Brattleboro, Vt.

Wm. Parry, Grapes, etc. Small Fruits. Parry, N. J.

W. Atlee Burpee & Co. Seeds and Thoroughbred Stock. Phil'a, Pa.

Thos. Meehan & Son, Caks, Rare Ornamentown, Pa.

Henry A. Dreer, Seeds, Plants and Garden Supplies. Philadelphia, Pa.

Z. Deforest Ely & Co. The Popular Seedsmen. Philadelphia, Pa.

W.M.Peters & Sons, Peach Trees a Specialty. Wesley, Md.

Robert C. Reeves, Seeds, Fertilizers, Implements. New York, N. Y.

Wm. H. Moon, Glenwood Fruit and Ornamental Nurseries. Morrisville, Pa.

D. H. Patty, Nurseries, Geneva, N. Y. Agents Wanted.

Wiley & Co. General Nurserymen and Im-Cayuga, N. Y.

Northern Grown Seeds, Worthrup, Braslan & Good-win Co. Minneapolis, Minn.

E. Moody & Sons, Lockport, N. Y. Niagara Nurseries. Established 1839.

West Jersey Nursery Co. Choicest New & Standard Bridgeton, N. J.

P. Emerson, Specialties—Peach, Pear & Apple Wyoming, Del.

H. W. Hales, Ridgewood, N. J. New and Rare Plants.

Samuel C. Moon, Ornamental Trees & Shrubs.

Roop & Zile, Seed and Plant Growers. Westminster, M.1

Parsons & Sons Co. (Limited), Flushing, N.Y. Rare Trees & Shrubs.

Fred W. Kelsey, The best Trees, Shoubs, Roses and Plants, New York, N. Y.

P. J. Berckmans, to the South. Augusta, Ga.

Frank Ford & Sons See'ls & Nursery stock.
Rayenna, Ohio.

F. H. Mooers, Eastern grown Garden Seeds.

Delano Moore, Farm and Garden Seeds. Presque Isle, Aroostook Co. Me.

Diamond White Grape Controduced. Brighton, N. Y.

Price & Reed, Imported & Home grown Vegeta-ble & Flower Seeds. Albany, N.Y.

E. & J. C. Williams, Nursery Stock, Grapes & Montelair, N.J.

Bush & Son & Meissner, Bushberg, Mo.

Crosman Bros, Seeds & Plants, wholesale and Rochester, N. Y.

W. D. Beatle, Fruits & Flowers, specially adapt-

F. Barteldes, & Co. Kansas Seed House. Lawrence, Ks.

Miami, J. D. Krusehke, Box 824. Piqua, Ohio.

Not long since we called on a farmer whose wife was passionately fond of flowers and had the finest geraniums we over zaw outside of a greenhouse. When asked the secret of her success she replied: "It is because I grow my plants in tin cans, and in these they do not dry up as they do in porous pots; in the tins I only water two or three times a week, while in pots they must be watered twice a day, and no plant will thrive if under water half the time."—Amer. Ag. for May.

For the Maryland Farmer.

## A CHANGE NECESSARY, II. Starting Orchards

I have been asked to tell a few facts about what I consider the best things for those to do who would start an orchard.

Now, I want it understood that I look upon starting an orchard something to be done for a life time, and perhaps for two or three life times if it is done right.

Then do it right in the beginning.

I have noticed that seedling apple trees which have given only a passable quality of fruit, which came up in a corner of the yard 150 years ago, are still giving good crops of the same passably good fruit.

Therefore I believe in planting the seed just where you want your trees to grow, and never disturbing their roots. Plant several seed in each spot, and, when they have shown themselves, pull out all but one and let that grow.

After this seedling gets to be of a good size, graft it, or bud it, to the kind you want and I believe you will have an orchard that will grow to large size; but will not grow old.

Planting out an orchard from trees bought from a nursery is the next best method, but be sure you are buying from someone upon whom you can depend.

If you get the trees from a nursery you have this advantage: They are already two or three years old and are that far towards bearing age. But the roots of course have been cut back and the tree will never get over that, in my opinion.

It will undoubtedly last twenty five or thirty years in good condition; but then it will begin to wither in the inside, on a line with the tap root which has been injured, and its usefulness soon comes to an end.

But perhaps twenty five or thirty years is long enough for the great majority of

those who would start an orchard, so pick out a good nurseryman, one on whom you can rely, and purchase two or three year old trees—if you cannot afford to wait to grow the seedlings as before stated.

This, however, is only one item in starting an orchard. These trees are to be located on suitable land and near your dwelling.

Trees from seeds seek their food at a much greater depth than nursery trees. It does not require as good soil for the former as for the latter, nor as much artificial fertilization.

The seeds should have a good start by enriching the spot in which they are planted. Or, in case nursery trees are set out, a hole three or four feet in diameter should be dug and the soil thoroughly enriched.

The distance apart for apple trees is also something to consider. I like forty feet each way. Plenty of room for the largest sized trees. Besides I keep my trees low. I arrange to have the side limbs the principal ones. I continually head tops back. They grow stout bodies, great masses of roots, and spread over a large surface. The tops of the trees are open to air and sunlight. The limbs are able to bear any weight of fruit. So I want forty feet as the distance between the trees.

The land, however, may be used for vegetables while the trees are growing and cultivated in this way with profit. It is also a good way to help the growth of the trees, as the additional manure used for the vegetables will help the trees.

Ashes, leached or unleached, is one of the very best things for use about fruit trees and should be broad cast over the whole space occupied by the orchard. Every spoonful of wood ashes should be saved.

One more thing—I don't like pruning off limbs and I am therefore very careful

to rub off buds and sprouts from the very beginning. This saves a great deal of hard work which would come later on, if the tree was neglected. The pinch of thumb and finger, or at most the touch of the pocket knife, is all that I am ever compelled to use on an orchard I set out and attend to in person.

Enough cultivation and enough fertilizer should be given to keep the tree growing rapidly, for this is what is needed to make the tree thrifty and to enable it to come early into bearing and to produce good crops of good fruit.

Some have said that with plenty of manure of the right kind apple trees should bear good crops every year. Perhaps so; but I have not yet been able to make mine bear fine crops every year, by a great deal. This, however, is not saying that it can't be done.

CHAPMAN.

### POINTS OF GOOD PRUNING.

To have an ideal tree, one should commence at the outset and prune annually at least. A young tree should have only three or four leading branches, all others should be pruned out; as the tree grows, superfluous branches should never be allowed to remain. Thus in the earlier years we have a very open tree which becomes a model at maturity; but let no year pass without its annual pruning.

Varieties vary as to needed pruning, thus the R. I. Greening needs a different plan from the Baldwin or the Ben Davis. The Northern Spy needs spreading, the Greening needs throwing up, and all need keeping in evenly balanced heads.

With Pears, those varieties like the Buffum and Sheldon need spreading, and the Seckel always much thinning out, but neither the Apple nor the Pear usually need shortening in unless one sided in

shape, never let branches crowd for sunlight and free circulation of air are indispensable for well developed fruit and a superfluous branch is a needless drain upon the resources of a tree. A good pruning knife, and an iron mallet and thin bladed chisel are excellent tools for pruning.

When trees are promptly attended to no large branches should need removal, but when that is the case a good saw is required, but not one orchard in one hundred is what it might have been with proper pruning.

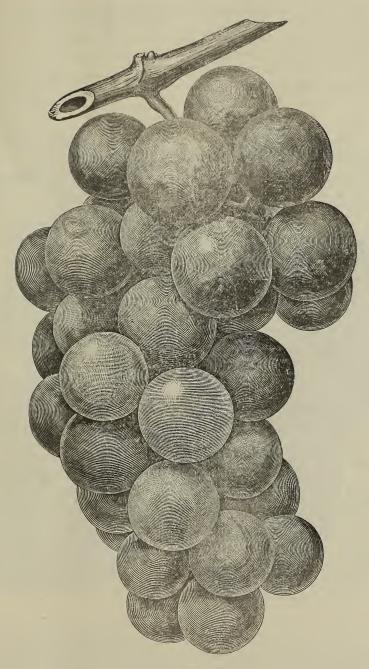
First have the idea in mind, and then step by step, year by year, proceed towards its attainment.—P. M. Augur, in Pop. Gar.

### OLIVE CULTURE.

Olive culture in California is rapidly assuming large proportions. There are orchards there of 15,000 trees, and thousands more are being set annually. In that climate the olive crop is as absolutely sure as anything earthly can be. It is gathered in December and January, when help is plenty, and keeps remarkably well. The trees are set thirty-five feet apart, and as ten years are required to bring them from cuttings to the bearing point, grape vines are set between them. At maturity the average yield is \$20 worth of fruit per year.

### TRANSPLANTING.

Very many plants are lost by careless transplanting or by not waiting for suitable conditions of weather or growth, before risking the plants in the field. It is a common mistake, for instance, to get ready the garden early in May, and then on some fine morning set out all plants together without regard to their nature. About two days before the plants are to be



MAMMOTH WHITE.

taken up they should be thoroughly and repeatedly drenched with water, so as to soak down as far as the roots go. This will make the roots start into fresh growth and will prevent the earth from shaking off when transplanting.

### FEED THE ORCHARD.

Orchards generally produce full crops only every other year. This is because the full crop of one year so exhausts the fruit-producing qualities of the soil that it is not able to produce a free crop the next year. Give it a good supply of the proper kind of mannre and then make up for the loss of the fruit producing qualities of the soil, and you may expect good crops every year, provided you treat your trees properly in other respects.

### SEEDLINGS.

Plant some currants. They are hardy, the fruit is one of the healthiest there is grown, they bear early and regularly and are in every way satisfactory.

Early in the season, before the potato is np, the beetle will attack the tomato plants in hotbeds or that may be set out in the open ground. It will destroy a whole field of egg plants in a single night, and often does more damage to early plants than it does to the potato crop.

If a man grows the right varieties of fruit it will pay him a better interest on the money invested and the time required for its cultivation, than anything else on his farm.

Fruit will not pay largely every year any more than any other crop, but on a ten years' average the fruit on any man's farm (if of the right sort and properly grown

stock is planted) will put more clean cash into his pocket in proportion to the amount taken out, than anything else he can raise.

An acre of fruit, especially strawberries, will sometimes pay better than five acres of grain. It should pay the farmer to have a sufficiency of fruit for his own use alone. A large quantity can be canned for winter use, and it affords an agreeable change without much cost.

Every farmer ought to be a successful fruit grower, to some extent. He can find some varieties that he can cultivate with success, if he will try.

It costs no more to raise and harvest 300 bushels of Swedish turnips than it does for 150 bushels of potatoes, and there is more fun in it. Only learn how, and do away with the feeling that it is "gardening" and requires particular skill, and then go ahead.

There will be no crop of onions if the ground is not rich and well prepared. After the beds begin to start they will not thrive if grass or weeds grow among them. They must be clear of all obstacles.

Cut the young trees back when placing them in the ground, and also trim back some of the roots. First remove the top soil, lay it aside, and then dig the hole for the tree. When the tree is in position throw the top soil next to the roots, pour on a bucket of water, stamp the soil down, and then add more earth until the hole is well filled and packed.

A writer in the Indiana Farmer says: "Last year I put twelve moles in my strawberry patch of five acres to catch the grubs, and they did the work. I never had a dozen plants injured during the summer, either by the grubs or moles. I know

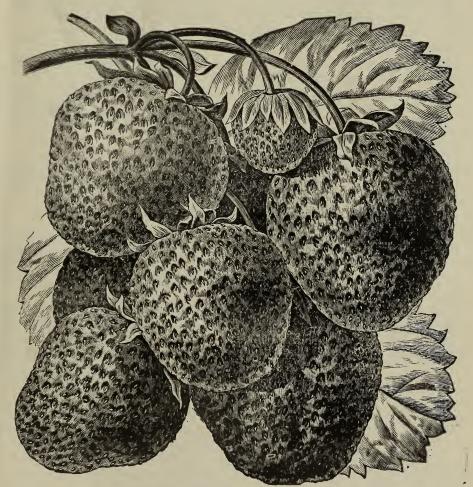
some people do not care for moles on their ties, as well as its flavor on the table. farms, but I want them in my strawberry patch."

### THE BEAUTIFUL EUREKA.

This Strawberry, pictured below, seems to be one of the most promising of the mammoth strawberries recently produced,

We see also that some speak of it as remarkably thrifty in very sandy soil, which would make it especially adapted to much of the fine garden land of Maryland.

It is said also to bear dry, hot weather and still to perfect its large sized berries,



BEAUTIFUL EUREKA.

tested, and for the first time this year with even additional sweetness. offered to the general public.

Prominent strawberry growers give the most flattering accounts as to its size, its productiveness and its marketable quali-

Those who desire the best results of strawberry culture can well afford to address the introducers. Cleveland Nursery. Lakewood, Ohio.

### GATHERED CRUMBS.

A man who feels that preparing a flower bed is beneath his dignity is without the proper disposition to make home happy. We must live for others as well as for ourselves.

The farmer who thinks there can be nothing new in agriculture should remember that thirty or forty years ago his grand-father thought the same way. It is a fact that agriculture has made more advancement during the past ten years than in any other ten years of the world's history.

Do not waste wood ashes. They are of sufficient value to pay for saving and applying to the soil. When applied to the soil they aid greatly in reducing the organic matter in the soil to its mineral elements, and in setting free abundant nitrogen from it also. Thus, being a valuable plant food, it is also an effective provider of other food substances, without which vegetation could not attain its highest vigor.

It is poor economy to employ incompetent farm hands, because they can be procured more cheaply than good responsible hands. The best hired men are always the cheapest while shiftless unlearned farm help is dear at any price.

The Giant Zittan onion which some of the agricultural journals are noticing and recommending, is unsuited to the north, requiring too long a season. It is an Italian onion adapted to Southern localities, where it may show some superior points.

— Vick's Mag.

The entomologist of the Ohio Agricultural Experiment Station made some experiments with helebore for currant worms. A half acre patch of currant and gooseberry bushes were sprayed twice, May 5th, and 17th, at a total cost of \$2.60.

The bushes were very effectively protected while those not sprayed were completely defoliated.

Plant sweet corn every two weeks till the Fourth of July. Make at least four plantings of peas, four of beans, several of radishes, two or three of cabbage and cucumbers, and you will have a garden that will bring you a perpetual feast.

It is better for the trees, while they are growing, to raise hoed crops among them, as the trees will get the benefits of the cultivation the crops will receive and there will be no perceptible difference in the size of the crop until the trees grow large enough to bear.

Chicken, sheep or cow manure, is just as good as any commercial fertilizer ever put on the market, could we get enough of it.

One of the best species of economy is to keep a gentle horse for use by the wife and daughters, that they may the better enjoy and appreciate life.

Every farmer is interested in good roads. None but experienced road overseers should be selected, and the tax required for road repair if properly applied is money well invested. Good roads save valuable horses and avoid loss of time by the farmer.

It is queer why farmers will buy story books, magazines, etc, while their shelves are entirely destitute of agricultural works, books written expressly for their benefit and which ought to be of interest to every tiller of the soil.

Many people make a mistake in turning out their sheep in the pasture too early in the spring, before there is sufficient food for them to nourish themselves, and in that case the wool will commence to shed. THE

### MARYLAND FARMER

AND

NEW FARM.

WALWORTH & Co., Editors and Publishers.

### Agriculture, Live Stock and Rural Economy.

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27 EAST PRATT STREET, BALTIMORE, MD.

### BALTIMORE, May 1889.

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If 5000 are allowed to run over a single number without paying, it is a cost to us of \$500, which we cannot afford to lose. Few of our subscribers take this into consideration. While we like to be as generous as possible, let us have a little justice on both sides.

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### SOMETHING MUST BE DONE

One important consideration must occupy the thoughts and call forth the decided action of farmers to insure their prosperity.

The first and most important one is to devise some method by which their produce can be sold to their own advantage, instead of to the advantage of middlemen.

Hundreds of barrels of kale and spinach have been sold in this market this spring for less than the cost of the barrels in which it was packed.

The growers have had the labor of planting, cultivating, harvesting, freight and commission to pay; and have not realized enough to pay for the barrels in which the produce was packed as their share of the returns.

For example: Take a hundred barrels from Norfolk—the cost would range about in this way: Labor 15c, the barrel and cover 25c, the freight 16c, delivery to the boat 4c making a total of 60c. The returns have been only 20c a barrel to the producer, and he has lost 40c on every barrel he has shipped on that consignment. This is only an average case. We have not taken into the account here the cost of fertilizer which would swell even this loss.

Now who reaps the benefit?

The consumer gets a little of it; but he pays a price which, if paid to the grower, would amply repay him for labor and expense.

It is evidently eaten up by mismanagement upon the part of producers as to the sale of the produce and by the multitude of middlemen through whom the produce passes before it reaches the consumer.

Even when thus early on the market, the Norfolk kale has treated the producer this year in many cases, to the above average of loss. When brought in "in bulk" from the early Anne Arundel lands adjacent to our city, it has hardly paid the expense of man and team.

Something must be done by the farmers themselves to remedy this, and we can see no means of doing it unless they band themselves together and act as one man would act. Share with each other gains and losses and themselves take the places of these middlemen. This can be done. Something must be done; and the sooner the farmers make up their minds to act, the better it will be for them.

These results are due to mistaken action. The country is large enough to give a good market and only mismanagement thus enables the middlemen to absorb all the substance from the farmer. It is not an argument against trucking by any means; it is simply a proof that farmers are not banded in a fraternal union and willing to take the ordinary means of prosperity which is visible in the prosecution of all other branches of business.

When will they learn that to succeed they must conform to the modes of other business men? and watch the best markets, and learn how best to reach them, and take advantage of the ordinary conditions and the extraordinary conditions of season, location and transportation?

### DR. SHARP AND COTTON SEED OIL.

We have had such a demand for the article of Dr. Sharp in our February number in reference to the bad results of Cotton Seed Meal and Cotton Seed Oil that our reserved copies, some hundreds in number, have entirely disappeared. And still the demand is fresh; more than a hundred have been ordered during the past two weeks. We are therefore forced to republish the article which we do in full in the present number.

Dr. Sharp is well known to our readers

as one of our most prominent chemists, whose conclusions are accurate and whose statements may be relied upon as containing the results of personal investigation.

He emphatically casts aside all the claims of Linseed and Cotton seed, as exceedingly injurious and when fed continuously sure to end disastrously. He is taking the same positive stand against these as he did against the nse of leather and other insoluble and worthless sources of nitrogen in fertilizers, and which he pursued until they have by law in some States been excluded from fertilizers.

The use of Cotton Seed Oil as human food is referred to also, and he gives its practical effect in his own person in contrast with Cod Liver Oil—showing the indigestible qualities of the former. He declares the use of it in the place of lard as dangerous in the extreme to weak stomachs and liable to produce severe derangements of the system, accompanied by headaches, and he calls for the interposition of law to protect the people from its injurious effects.

Lard enters into the food of mankind more generally than any other substance of a fatty nature and it is very important that it should be kept as pure as is possible. It may not be generally known that the lard of G. Cassard & Son has been adopted by our Government as the standard of purity, and all other lards when brought to the government chemists are tested by comparison with that. This is a very flattering testimony to the superior produce of one of our well known Baltimore firms.

We trust our readers will be glad to study with serious attention this republished article of Dr. Sharp and consider carefully his statements. His position would suggest a trial of the Norwegian Cod Liver Oil in cattle rations as an excellent substitute for the article he condem.s.

### "STOCK ON THE FARM."

We observe that our correspondent, "Nisbet," takes the Editor to do for pleading the poverty of the Agricultural College as an excuse for not working its farm. He should remember that the MARYLAND FARMER was under another administration at that time.

The present editor does not believe in making any such excuses for not cultivating College farms, or any other farms, when labor can be readily commanded.

If money is not forthcoming to procure fertilizers, green crops can always be used to fertilize the soil, and the teachers of agriculture must be of a miserable character if they cannot do something with moderately good land.

When College lands are allowed to lie idle, in a barren and unsightly condition, it is a deplorable sign of incapacity, improvidence, and lack of management, which should be severely criticised by the press and the people.

The first requisite of an Agricultural College is to have its land in charge of a farmer who can make its success the best advertisement of the institution throughout the State.

Money should never be spent for any other department until the Agricultural Department is fully equipped and the farm in perfect working condition.

We trust "Nisbet" will now understand the views of the present proprietor of this magazine. We do not at all object to anything our correspondent may think proper to say in commendation of energy and work in our Colleges and Experiment Stations.

### SOUTHERN MARYLAND.

We see that the articles on Southern Maryland by our contributor "G. E. Jr." are having a good influence upon the people in our own State as well as in other

States. They have received the sanction of the press in various sections. The Westminster Advocate quotes from them, and says:

"This is the place for young Western Maryland farmers to go to, in order to find homes, instead of going out West. The climate is more healthy than that of the West, the winters are much milder, less care of stock and less winter feed is required, and convenience to market is much greater.

A number of gentlemen in this vicinity are talking of making an excursion into that section of the State, to inspect it thoroughly and to become better acquainted with a region that is now to them a terra incognita."

The Anne Arundel Advertiser also quotes this article from the Westminster Advocate, evidently with approbation.

We have received many applications for extra copies of the three numbers from various sections, and we trust the citizens of Southern Maryland will welcome visitors, from whatever locality they may come, and give them all the information they may require to form a just opinion of its advantages.

### The Summer Travel.

The season is approaching when arrangements must be made for Summer travel, and the most important things to provide are the trunks, satchels and kindred articles, into which are gathered the necessities for dress and comfort during the trip. There is no better place in our city to obtain these requisites than at J. B. McElroy's on Saratoga st., near Charles. There may be found whatever is wanted, and at prices which will give satisfaction to the purchasers.

BEECHAM'S PILLS act like magic on a weak stomach.

## STOCK FOR THE FARM.

Address any of this list of Breeders and Dealers and you will find a prompt answer if you mention the Maryland Farmer. We believe every one of them to be reliable.

—Editor Md. Farmer.

Reid Brothers, English Shires, Clydesdales, Shetland Ponies, Janesville, Wis.

Geo.F. Davis & Co. Originators Victoria Swine. Stock for sale. Dyer, Ind.

E.H. Smith, Standard bred Horses, Fancy Pigs, and Poultry. Salem, N. J.

### STOCK ON THE FARM. II.

Grass the Great Renovator. Silos
the Hope of the Future. The
Farmer's Bank at Home.
The Blessed Cow.
The Horse.
The Sheep and the Dog.

In my previous article I pointed out the great necessity of grass as one of the first steps in the way of progress toward the future prosperity of this locality. Much of the land now is in such a condition of barrenness that grass won't grow on it. The soil is light, without vegetable matter enough to give it any reasonable hope.

This being the case, I told how to make a commencement towards getting it right. Put on anything which will grow, and turn it under, and plant again and again whatever will grow, turning it under, until it will bring a good crop of grass.

If it is so far gone that nothing will grow, which might possibly be the case, though very seldom, then you will have to get some commercial fertilizer to start it. It is always best to get this fertilizer to start with if you have the money to spare;

but where large surfaces are to be restored the time is cheaper often than the purchase of the great quantities which would be necessary.

I am not one to run down commercial fertilizers as a fraud; because I know better. But I believe that farmers should save their cash whenever they can do so. Time is very little to them compared to what they are obliged to bestow in labor to get money. So use green crops for fertilizing as far as possible.

Then grow crops needed by stock; feed the crops to the stock on your farms; and thus add to the accumulating fertility of the land.

For some time I doubted the value of silos and ensilage. I read often the dark side of the subject. The smell of the ensilage where I visited was often 'strong and gave me a prejudice against it. I had no actual knowledge of the present methods of preserving sweet ensilage.

Let me tell you now that it is possible—not only possible, but is a constant practice now, to put into silos ensilage cut at different times, merely well packed by treading it down, covered with straw for a foot or so and then covered with plank, weighted only enough to keep them in place in a reasonably substantial manner; and this ensilage comes out sweet and palatable for the stock.

Take the very best stocked farm in the old-fashioned way of keeping stock, and it is safe to say that four cows may be kept with the silo for every one cow kept under those former conditions.

I believe this. I do not say I have done this myself, because I have not done it; but I have seen the fact demonstrated on a small scale so conclusively that I must believe it.

I wish some of our Experiment Stations would take this matter in hand and show just what can be done with silo and ensilage. A few thousand dollars spent in this way would in my opinion, be well spent—if the experiment could be set forth in clear language and distributed to the farmers properly.

Now, while I am on this subject, I want to say, it is all nonsense at present to publish tables of figures for farmers. They won't study them.

In most cases it would take them longer to unravel the figures than to make the experiments themselves. It is so and I know it.

They want facts in plain reading. They want results. If an acre of green ensilage will do a certain thing, say so in strong words, and so it can be understood. And don't give five or six pages of figures interspersed with chemical terms to prove it. Use plain English words and state the solid facts, by which you are able to live.

Who cares for theories? Farmers don't, that's certain. There are plenty who can farm ever so nice on paper! But that's all "bosh." We want solid facts to tie to, and give it in short, clear, Saxon words. Speak to the point, every time.

Why have Agricultural Schools and Experiment Stations been so generally a failure? Why? Because they have shot above the heads of farmers all the time. Farmers laugh when they are mentioned.

It will remain so until practical reports are made which anyone can read and understand, without employing a chemist or a skilled mathematician as an interpreter.

I don't oppose real Agricultural Schools,

Mr. Editor; nor would I say a word against the Experiment Stations. They might be the greatest power in our land for good. But we want good farmers in charge of them.

The farm of an Agricultural College should always be a success! If it is of sufficient size, it should supply all the necessary farm products, which, rated at market prices, should show the balance in the farm's favor. The farmers will demand this and if it is not done they will sneer. I ain't a polished writer, Mr. Editor, but I know what I want to say.

I remember, Mr. Editor, you once plead the poverty of a college as the cause of its failure to cultivate its land. I don't believe in that. If a farmer has a hundred or more acres of land, with plenty of ordinary implements, and an abundance of labor, and then fails to cultivate his soil, and bring out a reasonable crop, we call him a "shirk."

That is the mildest name for him. There are plenty of stronger ones we might apply to him.

What shall we call the College which acts in the same way, under the same circumstances?

But this is only a parenthesis in the present article. I intended to devote this to the silo and stock: but I find that I must trespass upon your space further on this subject. I wanted to show that ensilage is relished by a large variety of stock, and I will do this in my next.

NISBET.

An English writer of great experience, and a close observer, in writing of a tour of inspection of the agricultural interests of the United States says: "If American stockmen used more roots and less corn they would have to pay fewer visits to Europe for breeding animals."

### FEEDING STOCK.

Cotton Seed Meal—Glaring Errors.

False Theories and Unauthorized Conclusions.

Character of Cotton seed Oil and Flax seed Oil,

Practical Thoughts and Tests.

Among the literature emenating from some scientific writers on feeding stock, of which so much is found in leading Agricultural papers, as well as in statements from Agricultural Stations, much value is placed on cotton seed meal as a food for cows, cattle and even horses. This seems strange when we have so much belonging to the natural order of food plants, while cotton is a weed which no animal will eat.

In answer to an inquiry how or what to feed 140 steers, intended I suppose to be sold in the spring, a prominent writer on feed suggests the following formula as a daily ration:

40 lbs Ensilage, at \$5, .10
4 " Hay. .03
8 " Wheat Bran, .08
6 " Corn Chop, . .69
3 " Linseed Meal, .05

and this, he says, ought to put 2 to 3 lbs. of flesh on the animal each day.

35 cts.

Now, since the same paper quotes beeves at 5 to 5½c. pr pound,\* where is the profit? even if the manure be considered of a value in the account.

As so much literature, like the above, is found in so called Agricultural papers, I do not wonder that many practical farmers are disgusted with scientific farming, even though great benefits have been derived by them from science.

The same writer tells farmers that the addition of oil cake to straw makes the straw equal to good hay—supplying the place of the starch, sugar, gluten, and protein matter found in good hay.

But does any practical farmer believe it? Can woody matter be converted into digestible food by the addition of a little refuse from oil works? And this, simply because there may be from 7 to 8 per centum of nitrogen in it?

I have before me a circular of one of these oil factories and the cake is valued as follows: 100 lbs. of oil cake equals 300 lbs. of oats, 318 lbs. of corn and 767 lbs. of wheat bran! Such a glaring error should be properly exposed; although I doubt if there be an intelligent farmer in Maryland who will be guided by it, even if the claim is supported by the stations.

The great secret of feeding is to secure food which the animals will assimilate and send to the proper point; and oats, corn, and wheat bran, with plenty of good fresh water and hay will do the business, without the refuse of oil works or the offal of glucose works and beer breweries.

Another mistake is made by estimating the quantity of food by the weight of the animal. I have a pair of horses that from October to May seldom have a bridle on them and in the same stable two mules which do most of the work on the farm. There is little difference in their weight; yet I feel I am within bounds in stating that the mules do not eat two thirds as much as the horses.

This holds good with mankind also. Upon well authenticated evidence Thomas Wood, with a remarkable degree of vigor, lived for eighteen years on a pound of flour and water per day. Conara, an Italian nobleman lived for sixty years—dying over a hundred years old—on 12 ounces of food per day, consisting of bread, meat, egg and soup. His health and mental faculties kept in good order, and at the age of 82, 86, 91 and 95, he wrote discourses urging others to follow his example.

Prof. Stewart asks me why I prize beefsteak? and answers the question himself by saying, for its nitrogenous character. Such is not the true answer—no more

<sup>\*</sup>At present only 4 to 1/2 cents per pound.

than for its large supply of carbon and elements of protein matter which are so rapidly transformed into blood and animal life; very like Mr. Vanderbilt's hearty meal of oat mush and milk without any complementary oil-cake or similar compound.

On this subject I can tell some facts which might prove of interest if I had the space; but one of a dozen for an illustration.

Charley, a sorry inmate of the Kent county poor-house, several years ago, sick and broken down, with neither mental nor bodily strength, came to me to know if I could do anything for him? Apparently having no organic trouble, I told him on one condition I would give him some medicine. He was to eat nothing but boiled wheat and milk, if he could get it. Any other food would ruin the medicine (a simple tonic.) He carried out the contract and in a few weeks he was greatly improved in every respect, and was able to go to hard work. The past year he did hundreds of rods of ditching with as much ease and speed as if he had been born in Ireland. He was a German and made money at 20 cents a rod for wide and deep ditches, and at one cent a wheelbarrow load of tough clay such as that with which I lined my ice-house. Charley's health seemed fully restored and last summer he left for the West, fully able to match the strongest man in work.

Prof. Stewart in his criticism of my article on oil-cake states that one pound of cotton seed added to ten pounds of straw would make it equal to eleven pounds of hay.

Our paper mill is paying \$4.00 a ton for straw. If 200 pounds of cotton seed cake, costing \$3.00, will make this equal to hay, I think a great mistake is made in selling it.

But the scientific theory, bolstering up

the seed of an annual weed, fails to convince me that I can do without my sweet nutricious, properly secured hay—substituting woody matter for it. Although a hydro-carbon it is not of a digestible nature, as are corn, oats, rye and tender grass before it passes to cellulose or woody matter.

The subject of food in all its bearings is certainly an interesting and important one and for thirty years has not been neglected by the writer. Many facts can be stated which will show that neither animals nor human beings need complementary food; and the quantity is not so important as the proper digestion and appropriation of what is eaten.

It is to be hoped that some of your readers who are familiar with the science of proper food will let us hear from them, and let there be no axe to grind. Some years ago a writer in a prominent agricultural paper stated that water was only fit to wash with! He had light wines for sale, and a fine vineyard!

I claim that such compounds as oil cake, &c., cannot take the place of good, sweet and pleasant tasted meal, rich in such natural food as starch, gluten, sugar found in the grasses, along with the peculiar compounds classed as protein, having in it some mineral matter, lime, phosphorus and sulphur, as found in the albumen of the egg, the casein of milk, which must have come from analogous compounds found in vegetable matter with which the animal was supplied, and which is found so abundantly in the natural sweet tasted cereals—not in the seeds of such weeds as furnish paint oil, or lubricating, purging oils.

Since the introduction of cotton seed oil as a substitute for lard and olive oil, I seldom taste salad or pastry away from home owing to the danger of getting the indigestible cotton seed oil, which a sensi-

tive taste or a weak stomach will seldom fail to detect, either at once or shortly after eating.

If there is any law to suppress the use of such a viie substitute for lard, as cotton seed oil, it should be enforced. Every pound of such lard—or, "Pure Olive Oil," so nicely labeled in French style, but from the same source—should be confiscated, if found on sale. It is unfit for any human stomach and no Laplander even could stand it as food.

The nauseous taste of flax seed oil forbids its use among human beings, and the dumb brutes are entitled to better food, especially as it can be obtained at less price and of a far more healthy character, unless purging is necessary.

Talking with Mr. Philip Tabb a short time since, who is one of our well known breeders of fine stock, he informed me that his English manager Mr. Wilkinson will not touch either cotton seed or flax seed cake as he has found them both injurious, even when mixed with his oats, meal, bran and rye chop and hay. [This conversation took place in our office and Mr. T's words were emphatic.—Ed.]

As is well known, flaxseed or linseed oil is adrying oil: i. e. rapidly attracts oxygen and passes to a rancid acid resin.

In all oil cake a portion of oil remains and exposure soon converts it into an indigestible resin, insoluble in water or the juices of the animal economy, and passes along with the other inert matter found in the tough hard shell surrounding the oil in flaxseed, cotton seed, castor seed, hemp seed, jimpson seed and others. To the irritating relaxing action is due the purging quality of indigestible oil, a table spoonful of which will give a free purge.

As an experiment I have taken four ounces of sweet cod liver oil with no visible effect except a warming of the body and loss of appetite from the overdose of a

concentrated carbo hydrat that was rapidly digested. On the other hand a tea spoonful of flax seed oil or cotton seed oil would remain for hours producing a similar effect to that of rancid butter or lard.

Prof. Stewart claims the value of food based on its nitrogen. This I think is a very great error; and I cannot think that the elements of good timothy hay can be furnished from straw by the addition of a little oil cake, and anyone who will try it I think will soon have a poor sickly animal.

A. P. Sharp.

Baltimore, Md.

### MAKE IT A CRIME TO OWN A SHEEP.

The Dog Law.

The dog law bill, for the encouragement of sheep husbandry, provides that when anyone has sheep killed or injured by a dog, he may swear out a State warrant against the party supposed to be the owner of the dog, and upon proof that the person named is the owner of the dog that killed or injured the sheep, the Justice of the Peace shall have him to pay the owner of the sheep \$2 in cash for each one killed, if injured, \$1 in cash for each sheep; that any dog found attempting to kill or injure any sheep shall be killed. This bill passed its third reading.

It is the only dog law that has ever passed the Legislature of North Carolina.

The bill is expected to pass the Senate.

The above clipping taken from a State paper is a sad commentary on the farmers' Legislature. This act, if it means anything, means to elevate the dog and give him more privileges than heretofore. To say that a dog may kill a sheep for two dollars and may injure a sheep for one dollar, what does it mean? A grade

Southdown wether sells from four to six dollars, and a grade Cotswold sells at five to eight dollars for mutton. blood Merino, or Southdown, or Cotswold lamb sells from ten to fifty dollars, according to breeding. The city of Baltimore, to encourage sheep husbandry, sells the Southdown lambs from the Druid Park flock at the low price of twenty-five dollars each. Does this bill mean that if any farmer has any improved breed of sheep, worth from ten to fifty dollars each, that a dog is authorized to go and kill them for two dollars each? . If this is so, farewell to all attempts to improve the breed of sheep. Farewell to all stock raising, and let all cotton and all tobacco be the crybuy everything else. Would it not be better to pass a bill making it a crime to have a sheep? I can't judge of a bill from the clipping; give us some light.

-Progressive Farmer.

#### SENATOR PALMER AND THE BULL.

### Lively adventure of the newly appointed Minister to Spain.

An Eastern politician who recently visited Senator Thomas W. Palmer at his famous farm out on Woodward avenue has written back here telling a good story on the new Minister which seems to be apropos considering that he is going to Spain. After showing his friend the sights of the farm Senator Palmer said, according to this chronicler:—

"Let's go and see the bull. He's royally bred and don't kick either."

"We went into the barnyard," the story continues. "There was the curley headed old patriarch looking like a warrior out of employment. 'Well, old fellow,' playfully remarked the Senator, and then, without notice or warning, began one of the liveliest stern chases I ever saw. I thought for a moment there would be a vacancy in the

United States Senate, but the Senator ran like a whitehead, making a flying leap—assisted by the bull—over a dry goods box that Providence or the hired man had placed in the corner of the barnyard to serve as a breastwork in this critical emergency.

"The bull charged the fort time and again, while the Senator yelled for reinforcements or a Springfield rifle. He was finally lished over the fence, and announced that we had seen all that was to be seen.

"On our way in he casually dropped the remark that it would not be necessary to recall the episode on our return to Washington, but I only smiled."

Professor Alvord says; Looking over my records, I find that with cows of like age and breeding, those which calved in September and October gave from 800 to 1,000 pounds of milk more per year than those that were fresh in the spring.

Keep the young cattle growing steadily. Best authorities agree that feed goes further with the young animal than with the old.

Stock raising and grass growing are joint occupations. A higher price can be obtained for hay by converting it into beef, while the manure remains behind to add to the fertility of the soil. When the hay is sold off, the farm will sooner or later be impoverished, and the prices obtained will be less than if stock is kept to consume the hay.

Sugar beets make excellent feed for cows for either milk or cream. The beet and other roots are not generally fed because farmers prefer to grow corn, which is cultivated so much easier without any of the stooping or hand weeding required for roots.

### 

#### WASHING DISHES.

With a skip and a hop And a jolly dish mop And a pan of bubbling water; With the linen so dry, And her fingers so spry, Only look at little daughter.

She has marshalled each ware With an orderly care, And she daintily dips it under; Not a drop, not a dint Not a speckle of lint, For her cleaning it is a wonder.

See the tinkling glass, In a sparkling mass, And the shining silver round it; For, you know, there's a way, To turn work into play, And the thrifty lass has found it.

So the plates and the knives, Lead hilarious lives, And the cups and the saucers rolic; Even kettles and pans, In her generous plans, Take the scraping for a frolic.

-St. Nicholas.

#### PARDON'S GOOD LUCK.

Philosophers say that there is no such thing as luck. As Darwin thought differently.

"My luck exactly," said he, despairingly. "I might have known just how it put them up yourself, father?" would be."

He sat on the old stone porch, staring out toward the sunset, his chair tipped back on its two hind legs, his hands thrust aimlessly into his trousers pockets.

beech logs that was blazing on the hearth in the room inside, where Pardon was tacking up the red moreen curtains that she had just sponged and mended neatly. But it was not an easy thing for Mr. Darwin to relinquish the habit of outdoor lounging that had clung to him all the summer through.

"What is it father?" said Pardon, coming briskly to the door, with a tack hammer in one hand and a paper of tacks in the other.

"Jones has just gone by," said Mr. Darwin. "He says the old cow has got out on the railroad track again."

Pardon bit her red under lip.

"I told you she would, father," said she, "if you didn't have them bars repaired."

"And she's got run over," dolefully added Darwin. "I'm sure I don't know what we are to do without a cow. We've always put a lot of dependence on our milk. But I might have expected it. Luck has been sheer against me ever since John James died. A man with a house full of gals can't expect to make no headway in the world."

Pardon colored up.

"You didn't expect your girls to mend the bars, did you, father?" asked she, a little bitterly.

"I was calculatin' to speak to Tim Parsons about gettin' a new pair o' posts put up," sighed the farmer.

"Wouldn't it have been a safer way to

"I ain't as young as I used to be," said Darwin evasively. "And the rheumatics is twistin' me powerful these first cold days."

"Then," said Pardon, with a certain It was cold enough to justify the fire of touch of daughterly authority in her voice, "you should come into the house, and not sit there, getting chilled through, and then find fault with your luck."

Mr. Darwin slowly rose and shuffled into

the bright little keeping room, where Pardon had spread a neatly braided rag rug before the fire and placed a broken spouted pitcher of yellow gold rod on the table.

She looked after him with a sigh, half

of impatience, half regret.

"I wish John James had lived!" said Mr. Darwin, feebly.

"So do I," assented Pardon.

"Ain't supper most ready?" said the farmer, looking discontentedly around.

"It will be in a minute," said Pardon.
"I had to split the kindling myself for the kitchen fire, and Fanny has run to Mrs.
Merritt's for a little meal to make some hot corn bread."

At the same moment Fanny returned—a slight, overgrown girl of fourteen—breath-less with the haste she had made.

Mrs. Merritt is very sorry," said she, "but she hasn't any cornmeal in the house."

"That's enough!" said Pardon glowing scarlet to the roots of her hair. "I don't blame her for getting tired of lending things to us!"

"But," added Fanny, "she sends a pail of Graham flour to make gems. Indeed, indeed, Pardon, she's as kind as she can be!"

Pardon laughed hysterically.

"I'm getting as hard and as bitter as a sour persimmon," said she. "Yes I'm very glad of the Graham flour. Father can't make out his supper without something hot for a relish. Perhaps some day we can return Mrs. Merritt a kindness. But, oh, Fanny, have you heard? The red cow got out of the pasture this afternoon and is killed on the railroad track."

Fanny burst into tears.

"Old Pinkey!" she exclaimed. "Is there no end to our bad luck?"

Pardon stamped her pretty, ill shod foot impatiently on the floor.

"Luck!" she repeated. "Don't use that dreadful word! I believe father would be

a better and happier man to-day if it wasn't in the dictionary at all. There isn't any such thing as luck. It's all bad management, shiftlessness—the habit of putting everything off until the last moment."

And then she cried, too, poor little overburdened Pardon.

She was tall and slender, with large glittering hazel eyes, red brown hair, and one of those delicate complexions where the sun lays its touch in the shape of here and there a cluster of freckles.

Fanny was dark, with Spanish eyes, fringed with long lashes, and hair as black and lustrons as jet. Whatever else fate had denied the Darwin girls, it had been generous to them in the matter of personal attributes.

They made their frugal supper of Graham gems, a very little butter, the weakest brewing of tea, and no milk at all, and then Pardon built up the fire, got her father last week's newspaper, which good Mrs. Merritt had sent over with the Graham flour, and then sat down in the back kitchen with Fanny to slice up a few late peaches for drying.

"For we have got to look after things very close this winter," said she. "Father seems to have no energy at all since John James died. I'm afraid it will end in the farm being sold to clear off the mortgage."

Fanny opened her big, black eyes.

"But we must live somewhere, Pardon!" said she.

"You and I can go out to service," said Pardon. "As for father, there's the poorhouse."

Fanny uttered a wail of despair.

"No, no, dear; don't look so distressed" said the elder sister, repenting the rashness of her speech. "I really don't mean it. I'm cross, that's all. It's hard doing the work of hired man, servant girl and house-keeper all in one. I shall feel better to-morrow, after I've had a night's sleep.

old Pinky any more."

And once again the sisters mingled their tears.

"If Father had only mended those bars," said Fanny. "It was so unlucky"---

But Pardon put her hand over her sister's lips.

"Not that word, Fanny," said she, "remember, it is forbidden."

The two girls were washing up the breakfast dishes the next day in the temporary absence of Mr. Darwin, who had strolled off toward the post-office to see if the mail was in, when Squire Etting crossed the threshold.

"Father ain't to hum, eh!" said he. "Well, I reckon I can talk things over just as well with you, Pardon."

"What things?" said Pardon, distrustfully.

"That there skating rink down by the lake," said Mr. Etting, "that John James built. It's goin' to be a good hard winter, if there's any truth in signs, and I've a notion to buy the concern just as it stands, and run the rink myself. The land belonged to your mother's estate, and I suppose you an' the gal here have the right to sell it."

"Yes," said Pardon, her eyes fixed calmly on the squire's wooden visage. "How much will you give for it?"

"Wal, it ain't wuth so dreadful much," said the squire, evasively. "Say a hundred dollars for the building and two acres o' land."

Pardon shook her head.

- "I won't sell it for that," she said decidedly.
- "I dunno what you want to keep it "Your for," said the squire, irritably. father, he hain't got the go to run a skating rink."
  - "I don't know that," said Pardon, winning.

I haven't got to get up early and milk poor firmly, "but I don't intend to be swindled, all the same"

> The squire stamped out of the room in a rage.

> "Then drive a better bargain with somebody else, if you can," said he vicious-

- "Pardon, Pardon!" whispered Fanny, close to her elbow, "call him back. hundred dollars is a great—great sum of money."
- "No," said Pardon. "I will not call him back. Let me think!"
  - "But what will father say?"
- "Father need never know, Fanny. It is as Squire Etting says, the land is all that is left of our poor mother's property. It is ours to sell or to keep, as we please. The lumber alone for that poor building cost John James nearly \$100. The Squire thinks he can safely cheat us, because we are only women. But he will find himself mistaken."

She put on her green gingham sun bonnet that afternoon and went over to the Merritt farm. Joel Merritt was just driving in through the big gates with a load of wood.

"I'm so sorry," said Joel, courteously lifting his cap. "Mother has gone over to a quilting bee at Mrs. Dike's. Won't you step in and rest?"

Pardon took off her green sun bonnet and fanned herself with it. Her cheeks were pink; her lovely hazel eyes sparkled.

"But it isn't your mother I came to see, Joel," said she. "I want to speak to you!"

Joel jumped off the load, threw the reins on Old Sorrel's back, and came up to her with a countenance of some surprise.

"Me?" he repeated, reddening a little.

For of all created beings he thought Pardon Darwin the most beautiful and "Yes," said Pardon, still deeply absorbed in her own plans and ideas. "How would you like, Joel, to go into partnership with me?"

"With you, Pardon?"

He caught his breath.

"Yes," frankly spoke the girl. "Of all our neighbors I think you are the most honest and reliable. I've known you ever since we were children together and—"

"Say not another word, Pardon!" joyously cried the young man, taking both her hands in his, while his whole face grew radiant.

"Oh, you don't know how proud, how happy you make me! For I've loved you this long time, Pardon—only I never dared to tell you so. And mother will be so glad to call you daughter! Give me a kiss, Pardon,—my little shrinking love—just one kiss, so that I may be sure I'm not dreaming!"

But to his dismay Pardon struggled to free herself and began to cry impetuous-

"I—I don't know what you mean!" said she. "Let me go, Joel Merritt!"

"But, Pardon, you said yourself-"

"It was the skating rink that poor John James built on Deep Lake!" faltered Pardon, on the verge of new tears. "I—I wanted you to help me fit it up and manage it this winter. I never dreamed of asking you to—to—Oh, Joel, what must you have thought of me?"

"Then you didn't mean it after all?" said Joel dropping his arms to his sides, and standing with a blank face before her. "You don't care for me."

Pordon stood silent for a moment, twisting her apron string, while the soft glow still burned on her cheeks.

A sudden light flashed into Joel's sunburned face,

"My own love," he cried out valiantly.

"I'll take the skating rink, but you've got to be thrown into the bargain, too! say you'll consent, Pardon!"

At all events Pardon did not refuse.

"Eh!" said Asa Darwin, when the facts of the case became patent to his rather dense understanding. "Young Merritt going to fiinish up the rink before frost comes. And engaged to our Pardon, too? Well, I declare that is a piece of luck!"

And this time Pardon took no exception to the obnoxious word.—Saturday Night.

#### Roland Plow Works.

Our readers are familiar with the famous Roland Chilled Plows, from which the above extensive factory has taken its name. So well known are these works that any letters directed to them, "Baltimore, Md.," will reach them promptly and receive speedy answer. Address them for all plows and iron work used on your farm. They have also several first class specialties of great value in lightening farm work.

#### Ohio Improved Chesters.

Our readers have no doubt noticed the peculiar advertisement of the L. B. Silver Co., of Cleveland, O., and their claim of "Cholera Proof Hogs." We observe in several of our exchanges both editorials and letters giving evidence to the facts that their hogs have survived when all others in certain herds have fallen victims to this dread disease. We advise our readers to correspond with them. So sure are they that their system of feed has this effect upon their stock that they offer to replace freely, any animal dying from this disease which they may sell. They give evidence of uprightness in their dealings, and are highly commended by those who are near them. A "Cholera proof hog" would be a blessing to our country, when

statistics show about 6,000,000 are dying of cholera annually. It will cost only a trifle of postage to write then; on the subject.



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Kidney Pains, Backache and Weakness cured by Cuticura Anti-Pain Plaster, an instantaneous pain-subduing plaster. 25c.

#### Fearless Threshing Machine.

We call the attention of farmers and threshermen to the advertisement of the celebrated Fearless Threshing Machine, elsewhere in this paper. Unparalleled honors have been bestowed upon this machine, at fairs and exhibitions, State, National and International; and, if universal victory at trials is evidence of superiority, then most assuredly was an ex-President of the New York State Agricultural Society correct, in saying of the Harder Machines, "they are the best ever made." And, as equally good and reliable testimony has been borne times without number, persons designing to purchase will do well to consult the manufacturer of the Fearless, Minard Harder, Cobleskill, N. Y.

#### THE MARYLAND JOCKEY CLUB.

The May meeting of this celebrated Club will be held as usual at Pimlico, and will no doubt be a grand success. It is one of the most popular race courses in the Union. Every meeting has been a successful one and given entire satisfaction to turfmen from every section and to the throngs of spectators. The Spring Meeting will be May 7-10 and it is predicted, be one of the most brilliant in the annals of the American turf.



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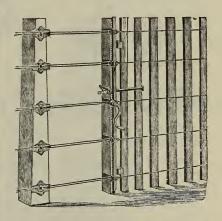
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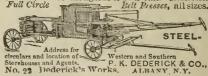


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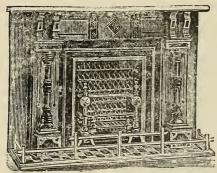
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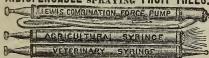


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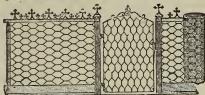


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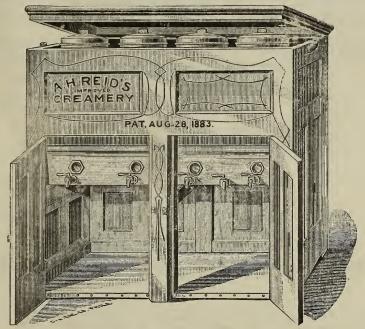
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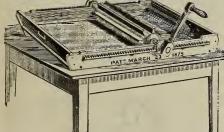
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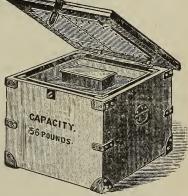
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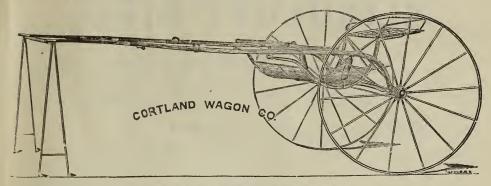
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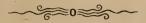
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